



TYPICAL DECK PLANS

BASED ON THE 2006 INTERNATIONAL RESIDENTIAL CODE (IRC)

A building permit is required before starting construction

Inform the plans examiner and provide drawings
if the deck you wish to build is more than a simple rectangular deck

Detached decks less than 120 square feet in size are exempt from the requirements below

- SPANS** Pressure treated lumber is required for the load bearing lumber. The joist may overhang a beam up to 2 feet. The following are the allowable spans for floor joists. (o.c. = on center)

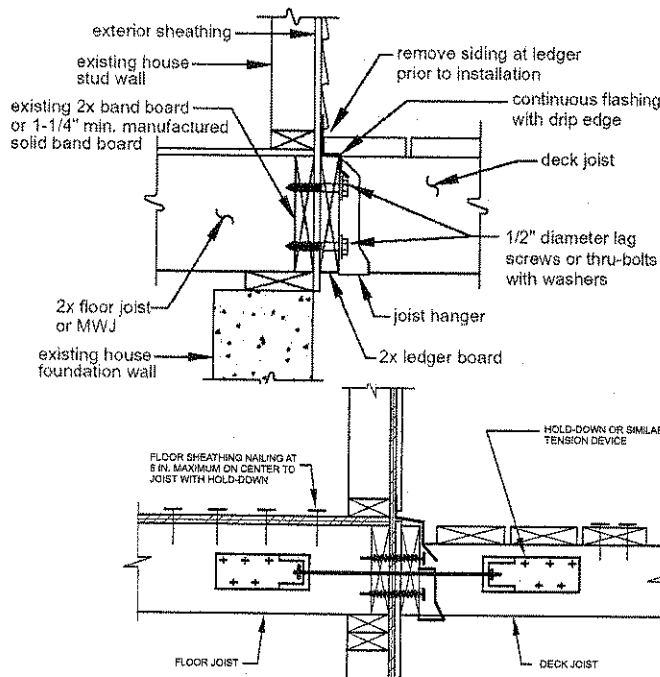
2" x 6" – 16" o.c.: May span 9'5"

2" x 10" – 16" o.c.: May span 15' 10"

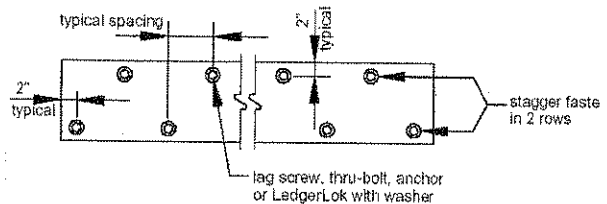
2" x 8" – 16" o.c.: May span 12'5"

2" x 12" – 16" o.c.: May span 18' 10"

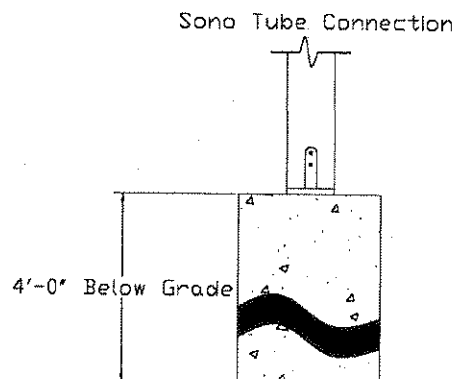
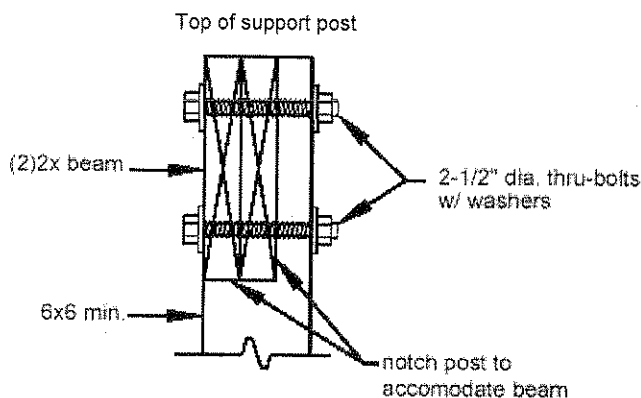
- DECK LEDGER** Must be fastened to the building using the drawings and schedule below:



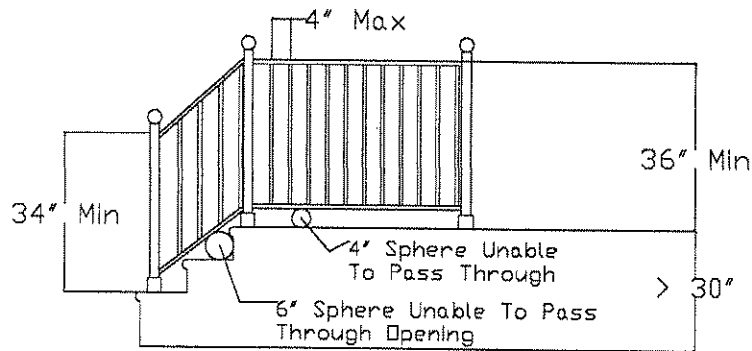
Ledger Board Fastener Schedule	
Joist Span	Spacing, o.c.
0 – 8'	10"
8' – 10'	8"
10' – 14'	6"
14' – 18'	5"
Greater than 18'	4"



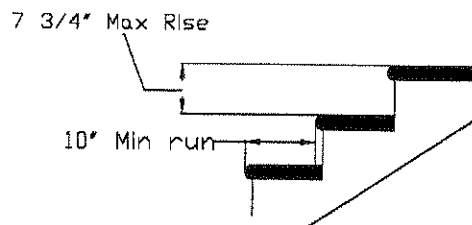
- LATERAL LOAD CONNECTION** The required lateral load connection shall be permitted to be in accordance with figure above. Hold down tension devices shall be installed in not less than two locations per deck, and each device shall have an allowable stress design capacity of not less than 1500 pounds.
- FOOTINGS** Must be large enough to prevent the soil from being loaded to more than 2,000 pounds per square foot, with the bottom 48" below finished grade. For example, a simple 12' x 16' deck would require three 12" sono tube footings. (See Section R403.1.4, Exception #4.)
- SUPPORT POSTS** Must be mechanically fastened to the footing and to the carrying beam. Metal fasteners can be used to accomplish this.



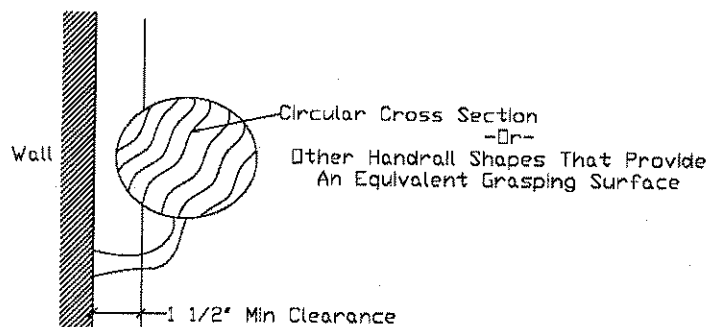
5. **GUARDRAILS** Are required on walking surfaces that are more than 30" above grade.



6. **STAIRS** The minimum tread width is 10" measured from nose-to-nose. The maximum riser height is $7\frac{3}{4}$ ". The maximum difference between any of the risers is $\frac{3}{8}$ ". Stairs with a walking surface of more than 30" above grade must have risers with an opening of no more than 4".



7. **HANDRAILS** Are required on stairs with 4 or more risers. Handrails with a circular cross section shall have an outside diameter of $1\frac{1}{4}$ " to 2". If not circular, it shall have a perimeter of 4" to $6\frac{1}{4}$ ", with a maximum cross section of $2\frac{1}{4}$ ". Handrails must run the full length of the stair and terminate at newel posts or safety terminals and be located between 34" and 38" above the nose of the stair.



8. **REQUIRED INSPECTIONS**

- Footings prior to concrete being poured to verify the depth.
- At completion or prior to the decking being installed if the deck is low to the ground.

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